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DATE: November 8, 2004

PAGES (INCLUDING COVER): 56

TO: Commissioner for Patents

FAX: 703-872-9306

FROM: Sonali S. Srivastava  
Reg. No. 52,248

Please see attached Transmittal Form for the following Patent:

Applicant: Brian ARNOTT  
Application No.: 10/711,328  
For: METHOD AND APPARATUS FOR REMOVING OIL SPILLS  
AND EXTINGUISHING FIRES  
Filed: September 10, 2004  
Group Art Unit: 3752  
Examiner: Unknown  
Attorney Docket No.: 060494-0002

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PTO/5321 (09/04)

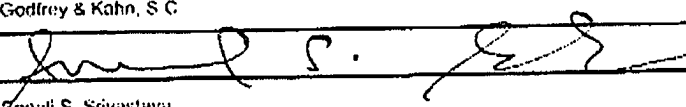
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<b>TRANSMITTAL FORM</b>  <small>(to be used for all correspondence after initial filing)</small>	Application Number	10/11,328	
	Filing Date	September 10, 2004	
	First Named Inventor	Brian Arnot	
	Art Unit	3752	
	Examiner Name	Unknown	
Total Number of Pages in This Submission	55	Attorney Docket Number	063494-0002

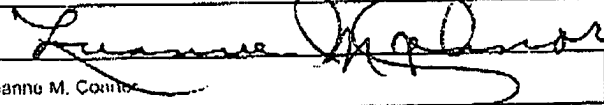
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**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm Name	Godfrey & Kahn, S.C.		
Signature			
Printed name	Sonali S. Srivastava		
Date	11/8/04	Reg. No.	52,248

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Typed or printed name	Luanne M. Connor	Date	11/8/04

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 12

**Complete if Known**

Application Number	10/711,328
Filing Date	September 10, 2004
First Named Inventor	Brian ARNOTT
Art Unit	3752
Examiner Name	Unknown
Attorney Docket Number	060494-0002

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.†	Document Number Number-Kind Code* (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US 05300219	04-05-1994	BRAID Thomas C.	
		US 05160629	11-03-1992	BROWN, Adria	
		US 03667608	06-06-1972	BURROUGHS, R. H.	
		US 05423340	06-13-1995	CAMPBELL, Willis R.	
		US 03628607	12-21-1971	DIETZ, D. N.	
		US 05244574	09-14-1993	GATT, Shimon	
		US 05451325	09-19-1995	HERKENBERG, Woll	
		US 05409607	04-25-1995	KARLBERG, Douglas F.	
		US 05558777	09-24-1996	KEMNETZ, Steven	
		US 06121038	09-19-2000	KIRSCHNER, Leon	
		US 4222868	09-16-1980	KURIS, Arthur	
		US			
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		US			
		US			
		US			

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No.†	Foreign Patent Document Country Code* Number* Kind Code* (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		EP 00370349-B1	1991-12-04	AUGUSTIN, Thoma	Abstract
		EP 00507784-B1	1994-10-19	HERKENBERG Wol	Abstract
		NO 148,862-B	1983-09-19	DALE, P., et al	Abstract
		NO 145,728-B	1982-02-08	HOSOEY, Oe	Abstract
		DE 2,947,281-A	1981-05-27	PAUL F. W.	Abstract
		DE 4109577-A1	1992-09-24	WEINEM H.	Abstract

Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. †Applicant's unique citation designation number (optional). ‡See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. §Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ¶For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. \*\*Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ††Applicant is to place a check mark here if English language translation is attached.

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Application Number	10/711,328
Filing Date	September 10, 2004
First Named Inventor	Brian Arnott
Art Unit	3/52
Examiner Name	Unknown
Attorney Docket Number	060494-0002

Sheet 2 of 2

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Removal of Oil Spills - Retro Search Reports from Nerac.com.	

Examiner Signature	Date Considered
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060494-0002

Application No. 10/711,328

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Brian ARNOTT  
Application No.: 10/711,328  
For: METHOD AND APPARATUS FOR REMOVING OIL SPILLS  
AND EXTINGUISHING FIRES  
Filed: September 10, 2004  
Group Art Unit: 3752  
Examiner: Unknown  
Attorney Docket No.: 060494-0002

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## INFORMATION DISCLOSURE STATEMENT

Dear Sir:

In accordance with 37 C.F.R. §§ 1.56, 1.97, and 1.98, the Applicant submits the references listed below for consideration.

U. S. Patent or Published Application References:

<u>Patent No.</u>	<u>Issue Date</u>	<u>Applicant</u>
US 05300219	1994-04-04	Braid, Thomas C.
US 05160629	1992-11-03	Brown, Adria
US 03667608	1972-06-06	Burroughs, R.H.
US 05423340	1995-06-13	Campbell, Willis R.
US 03628607	1971-12-21	Dietz, D.N.
US 05244574	1993-09-14	Gatt, Shimon
US 05451325	1995-09-19	Herkenberg, Wolf
US 05409607	1995-04-25	Karlberg, Douglas F.
US 05558777	1996-09-24	Kennetiz, Steven
US 06121038	2000-09-19	Kirschner, Leon

060494-0002

Application No. 10/711,328

US 04222868

1980-09-16

Kuris, Arthur

**Foreign Patent or Published Application References:**


<u>Published Application</u>	<u>Publication Date</u>	<u>Applicant</u>
EP 00370349-B1	1991-12-04	Augustin, Thomas
EP 00507784-B1	1994-10-19	Herkenberg, Wolf
NO 148,862-B	1983-09-19	Dale, P. et.al.
NO 145,728-B	1982-02-08	Hosocy, Oc.
DE 2,947,281-A	1981-05-27	Paul, F.W.
DE 4109577-A1	1992-09-24	Weinem, H.

**Non-Patent References:**

NERAC.COM – Removal of Oil Spills – Retro Search Reports.

Respectfully Submitted,

GODFREY &amp; KAHN, S.C.

Dated: 11/8/04By:   
Sonali S. Srivastava  
Registration No. 52,248Attorney of Record for the Applicant  
GODFREY & KAHN, S.C.  
780 North Water Street  
Milwaukee, WI 53202  
(414) 273-3500

MN222578\_1.DOC

**Process for removing surface distributed hydrocarbons, especially oil spills**  
EPB 1991-12-04 0370349/EP-B1 NDN- 080-0026-4881-7

**INVENTOR(S)**- Augustin, Thomas, Dr. Ritterstrasse 59 D-5000 Koeln 1 DE  
**INVENTOR(S)**- Schapel, Dietmar, Dr. Johanniterstrasse 15 D-5000 Koln 80 DE  
**INVENTOR(S)**- Nowak, Peter Schubertstrasse 42 D-4047 Dormagen 1 DE

**PATENT ASSIGNEE(S)**- BAYER AG 51368 Leverkusen DE **DESG. COUNTRIES**- DE, FR, GB, IT, NL

**PATENT NUMBER**- 00370349/EP-B1

**PATENT APPLICATION NUMBER**- 89120979.3

**DATE FILED**- 1989-11-11

**PUBLICATION DATE**- 1991-12-04

**PATENT PRIORITY INFO**- 3839570, 1988-11-24, DE

**INTERNATIONAL PATENT CLASS**- C02F00128; C09K00332

**PUBLICATION**- 1990-05-30; 1991-12-04, B1, Granted patent

**FILING LANGUAGE**- GER

**PROCEDURE LANGUAGE**- GER

**LANGUAGE**- GER

**EXEMPLARY CLAIMS**- 1. Process for the removal of surface-distributed hydrocarbons, characterized in that water and a polyether containing isocyanate end groups are allowed to act on the hydrocarbons and the gel containing the hydrocarbons which is formed is removed mechanically.; 2. Process according to Claim 1, characterized in that, as a polyether containing isocyanate end groups, a polyalkylene oxide of the formula (I) is used; in which; R. represents an alkyl radical having 3 to 18 C atoms.; R., R., R(sup)4 and R(sup)5 are identical or different and each represent hydrogen or an alkyl radical having 1 to 20 C atoms.; R(sup)6 represents optionally substituted alkylene having 4 to 30 C atoms, cycloalkylene having 5 to 30 C atoms or arylene having 6 to 30 C atoms.; x and y are identical or different and each represent a whole number from 5 to 200 and n represents one of the numbers 3, 4, 5 or 6.; 3. Process according to Claim 2, characterized in that in formula (I); R. represents an alkyl radical having 3 to 10 C atoms.; R., R., R(sup)4 and R(sup)5 are identical or different and each represent hydrogen or an alkyl radical having 1 to 12 C atoms.; R(sup)6 represents alkylene having 4 to 20 C atoms, which is optionally substituted with C(sub)1-C(sub)4-alkyl, isocyanate and/or chlorine groups, cycloalkylene having 5 to 20 C atoms or arylene having 6 to 20 C atoms or bi- or tricyclic cycloalkylene or arylene, in which the individual rings independently of one another each represent a cycloalkylene or arylene radical of this type and the individual rings are linked directly and/ or via oxygen, CH, CH(sub)2, C (CH(sub)3)(sub)2 and/ or C (CH(sub)3) bridges.; x and y are identical or different and each represent a whole number from 8 to 50 and; n represents one of the numbers 3, 4 or 5.; 4. Process according to Claims 1 to 3, characterized in that the polyether containing isocyanate end groups is mixed with water and allowed to act on the hydrocarbons.

**DESIGNATED COUNTRY(S)**- DE, FR, GB, IT, NL.

**THIN FLEXIBLE SHEET SORPTION MATERIAL FOR THE REMOVAL OF OIL FROM OIL SPILLS**

EPB 1994-10-19 0507784/EP-B1 NDN- 080-0063-6608-9

**INVENTOR(S)-** HERKENBERG, Wolf 37 Morningside Road West Hill Scarborough Ontario M1E 3X2 CA**PATENT ASSIGNEE(S)-** HERKENBERG, Wolf 37 Morningside Road West Hill Scarborough Ontario M1E 3X2 CA **DESG. COUNTRIES-** BE, DE, FR, GB, IT, NL**PATENT NUMBER-** 00507784/EP-B1**PATENT APPLICATION NUMBER-** 91900007.5**DATE FILED-** 1990-12-05; 1990-12-05**PUBLICATION DATE-** 1994-10-19**PATENT PRIORITY INFO-** 446761, 1989-12-06, US**ATTORNEY, AGENT, OR FIRM-** Asquith, Anthony, Anthony Asquith & Co 328 Leeds Road, Scholes Leeds, LS15 4DD, GB**INTERNATIONAL PATENT CLASS-** E02B01504**PCT PUB. DATE-** 1991-06-13**PUBLICATION-** 1992-10-14; 1994-10-19, B1, Granted patent**FILING LANGUAGE-** ENG**PROCEDURE LANGUAGE-** ENG**LANGUAGE-** ENG

**EXEMPLARY CLAIMS-** Apparatus for collecting oil from oil-contaminated water or land areas, characterised by the following structural combination: the apparatus includes at least one film or sheet of sorbent material; the film is thin and flexible; the film is suitable for being extended onto the oil-contaminated water surface or area to be protected; at least one of the two principal surfaces of the film is oleophilic and hydrophobic; the film includes many apertures therethrough; and the apertures in the film are suitable for admitting the passage of oil from one to the other of the said two principal surfaces.; Apparatus of claim 1, further characterised in that: the flexible film is paper; and the paper is coated on one side thereof with an oleophilic and hydrophobic finish.; Apparatus of claim 1, further characterised in that: the sorbent material has a specific gravity less than that of water; whereby, when applied to the surface of the oil-contaminated open water, the sorbent material remains afloat before and after sorption of oil to its full capacity.; Apparatus of claim 3, further characterised in that: the oleophilic and hydrophobic surface, when laterally extended in use, presents texture irregularities; and the irregularities are suitable for enhancing the degree of sorption of oil onto the surface.; Apparatus of claim 1, further characterised in that the apertures are formed by making many small pierces through the flexible film.; Apparatus of claim 1, further characterised in that the apertures are formed by making many small slits through the flexible film.; Apparatus of claim 1, further characterised in that the flexible film is composed essentially of an olefinic polymer.; Apparatus of claim 1, further characterised in that the flexible film is composed essentially of polyethylene.

**DESIGNATED COUNTRY(S)-** BE, DE, FR, GB, IT, NL.



**Trawling equipment for oil spill cleanup and removal on surface**  
EDB 86-07 86:048470 8601105435 NDN- 168-0423-4075-9

**INVENTOR(S)**- Dale, P.; Hylland, A.; Kvam, O.

1983-09-19

14 page(s)

**PATENT NUMBER**- Norwegian 148,862/B/

**DATE FILED**- 1977-10-31

**DOCUMENT TYPE**- Patent

**LOCATION OF WORK**- NO

**LITERARY INDICATOR(S)**- Nonconventional Literature: No Copies Supplied

**PATENT ASSIGNEE(S)**- A/S Fiskeredskap, Bergen, Norway

**PUBLICATION COUNTRY**- NO

**ANNOUNCEMENT CODE**- EDB

**ANNOUNCEMENT IDENTIFICATION**- EDB-86:048470

**LANGUAGE**- Norwegian

A trawl or similar equipment for oil spill cleanup and removal is described. It can be towed by one or more floating vessels.

**DESCRIPTOR(S)**- \*SKIMMERS --Design CLEANING; OFFSHORE OPERATIONS; OIL

**SPILLS IDENTIFIER(S)**- EQUIPMENT; POLLUTION CONTROL EQUIPMENT

**SECTIONAL CLASSIFICATION CODE**- 020900

**Procedure and device for collecting and removing oil spills from a water surface**  
EDB 84-13 84:089791 8404105023 NDN- 168-0380-1445-6

**INVENTOR(S)**- Hosocy, Oe.

1982-02-08

12 page(s)

**PATENT NUMBER**- Norwegian 145,728/B/

**DOCUMENT TYPE**- Patent

**LOCATION OF WORK**- NO

**INTERNATIONAL PATENT CLASS**- E02B15104; B63B35/32

**PUBLICATION COUNTRY**- NO

**ANNOUNCEMENT CODE**- EDB

**ANNOUNCEMENT IDENTIFICATION**- NOR-84:05023; EDB-84:089791

**LANGUAGE**- Norwegian

The invention is characterized by an oil boom attached alongside a tanker. It is open to the front (back) and stopped at the middle of the tanker. The boom consists of a skirt functioning as a screen. It is flexible and is kept floating by floaters and suspended by a special arm. At the end of the boom there is pumps and pipes for sucking the oil up into the tanker. The boom should be able to work well under all weather conditions. The claims concern the construction and use of the boom. 4 drawings.

**IDENTIFIER(S)**- CONTAINMENT; EQUIPMENT; POLLUTION CONTROL EQUIPMENT  
**SECTIONAL CLASSIFICATION CODE**- 020900

**Plant for removing large oil spills on water**

EDB 85-24 85:185623 8511613026 NDN- 168-0418-3473-6

**INVENTOR(S)**- Paul, F. W.

1981-05-27

12 page(s)

**PATENT NUMBER**- German(FRG) 2,947,281/A/**DATE FILED**- 1979-11-20**DOCUMENT TYPE**- Patent**LOCATION OF WORK**- DE**INTERNATIONAL PATENT CLASS**- E02B 15/04**PUBLICATION COUNTRY**- DE**ANNOUNCEMENT CODE**- EDB**ANNOUNCEMENT IDENTIFICATION**- FRG-84:13026; EDB-85:185623**LANGUAGE**- German

The plant consists of a transportable floating control container, which contains a storage space. A floating platform is connected with this on which the power supply and pumping equipment is situated. Several motor driven, controlled and floating suction devices are connected to the central container via cable ducts. The dimensions of the individual parts of the plant enable it to be transported by aircraft.

**DESCRIPTOR(S)**- \*OIL SPILLS --Pollution control equipment; \*SURFACE WATERS -- Water pollution; \*SURFACE WATERS --Water pollution control; \*WATER POLLUTION CONTROL --Environmental engineering; \*WATER POLLUTION CONTROL --Vacuum pumps ACCIDENTS; MARITIME TRANSPORT; PETROLEUM; RECOVERY; TANKER SHIPS IDENTIFIER(S)- CONTROL; ENERGY SOURCES; ENGINEERING; EQUIPMENT; FOSSIL FUELS; FUELS; LABORATORY EQUIPMENT; POLLUTION; POLLUTION CONTROL; PUMPS; SHIPS; TRANSPORT  
**SECTIONAL CLASSIFICATION CODE**- 520200

**System for oil spill removal****INVENTOR(S)-** Weinm, H.

1992-09-24

10" page(s)

**PATENT NUMBER-** DE 4109577/A1/**DATE FILED-** 1991-03-20**DOCUMENT TYPE-** Patent**LOCATION OF WORK-** DE**AVAILABILITY LIMITER-** Available from Deutsches Patentamt, Muenchen (Germany).**PATENT ASSIGNEE(S)-** Gutech mbH Gesellschaft fuer Umweltschutz und Technik,  
Wilhelmshaven (Germany)**INTERNATIONAL PATENT CLASS-** E02B015-04**SUBFILE CODE-** DE**PUBLICATION COUNTRY-** DE**ANNOUNCEMENT CODE-** EDB; ETD**INCOMING TAPE SERIAL NUMBER-** DE9304895**ANNOUNCEMENT IDENTIFICATION-** DE-93:004895; EIDB-93:074654**LANGUAGE-** German

No abstract available.

**DESCRIPTOR(S)-** \*OIL SPILLS --Water pollution abatement ADHESION; WATER  
**IDENTIFIER(S)-** HYDROGEN COMPOUNDS; OXYGEN COMPOUNDS; POLLUTION  
ABATEMENT**SECTIONAL CLASSIFICATION CODE-** 020900